OIPE
MAR 17 2005
PATENT & TRADEMARK OFFICE

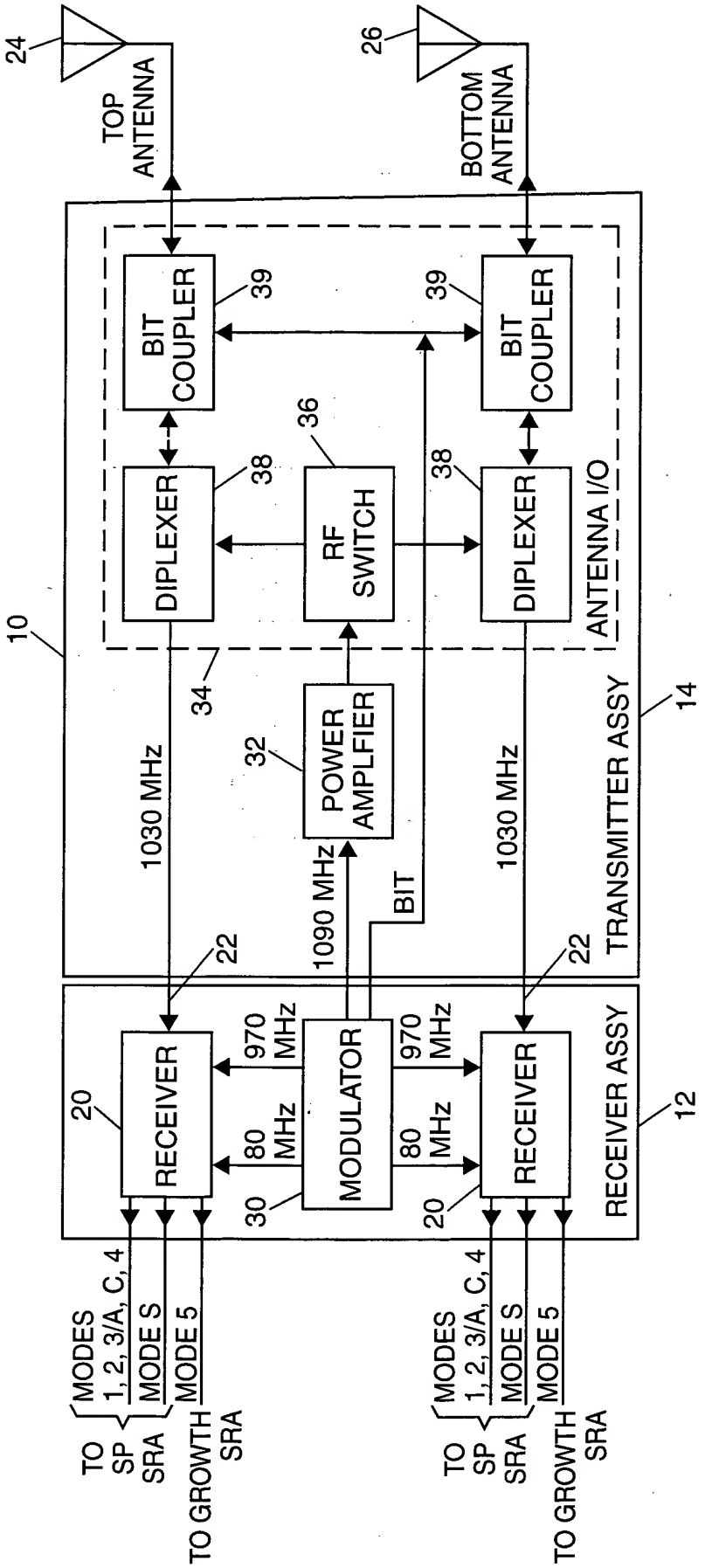

FIG. 1

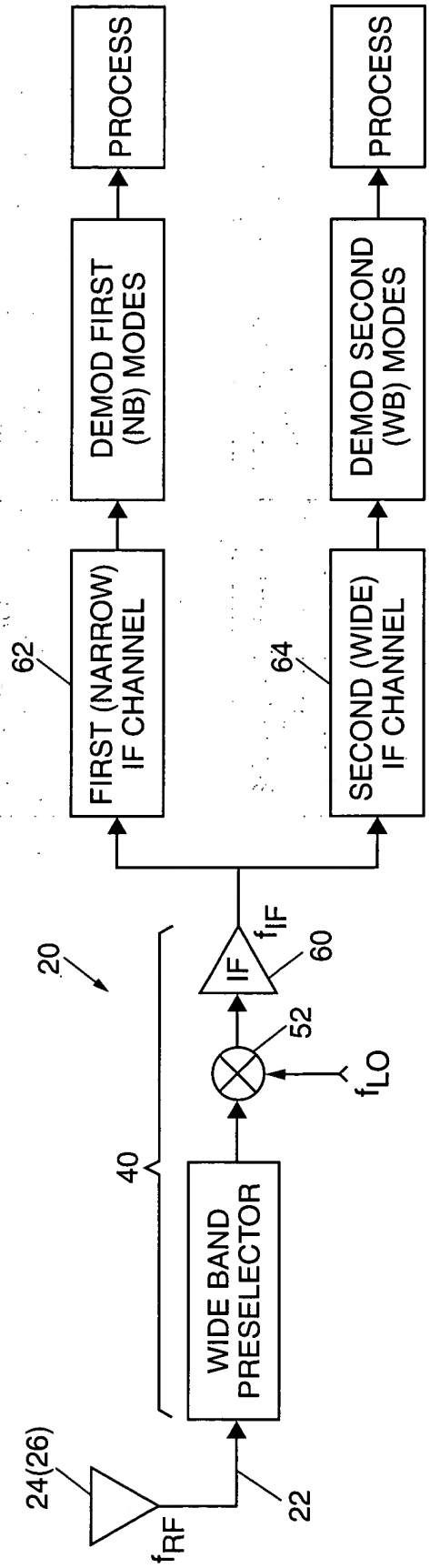
PROCESS
PROCESS
DEMOD FIRST (NB) MODES
DEMOD SECOND (WB) MODES
FIRST (NARROW) IF CHANNEL
SECOND (WIDE) IF CHANNEL
62
64
20
IF
f_{IF}
60
52
f_{LO}
40
WIDE BAND PRESELECTOR
24(26)
f_{RF}
22

FIG. 2

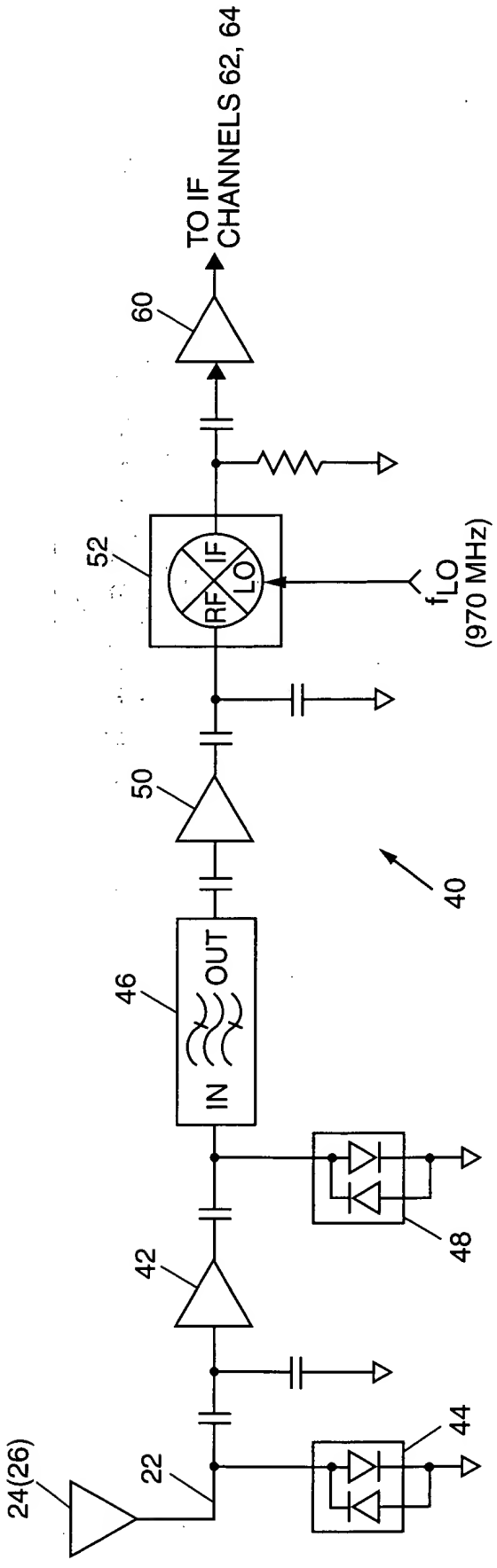
TO IF CHANNELS 62, 64
60
52
RF
IF
LO
f_{LO} (970 MHz)
50
40
46
OUT
IN
48
42
44
24(26)
22

FIG. 3

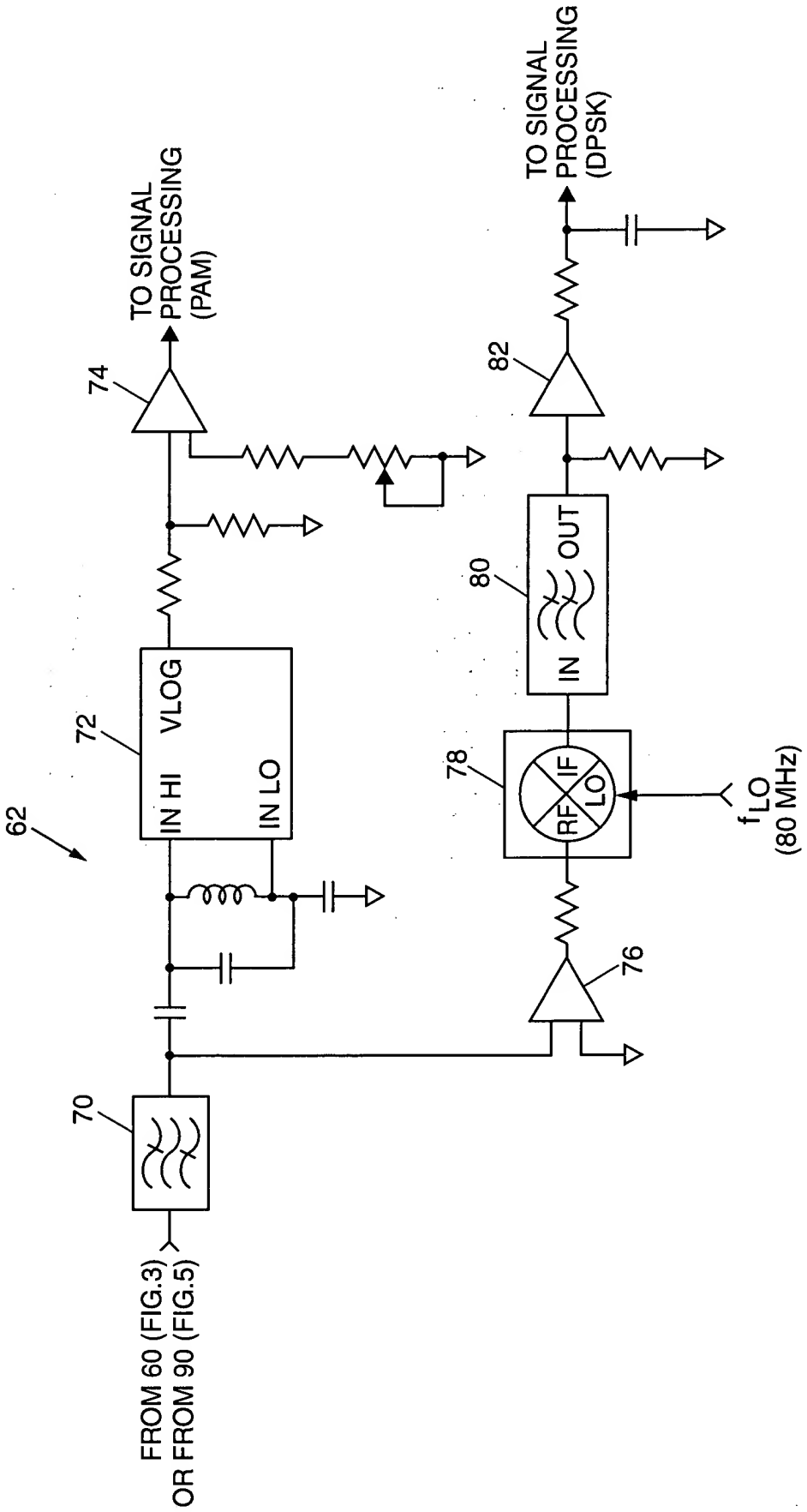
TO SIGNAL PROCESSING (PAM)
TO SIGNAL PROCESSING (DPSK)
74
82
72
VLOG
IN HI
IN LO
80
OUT
IN
78
IF
RF
LO
f_{LO} (80 MHz)
62
76
70
FROM 60 (FIG.3) OR FROM 90 (FIG.5)

FIG. 4

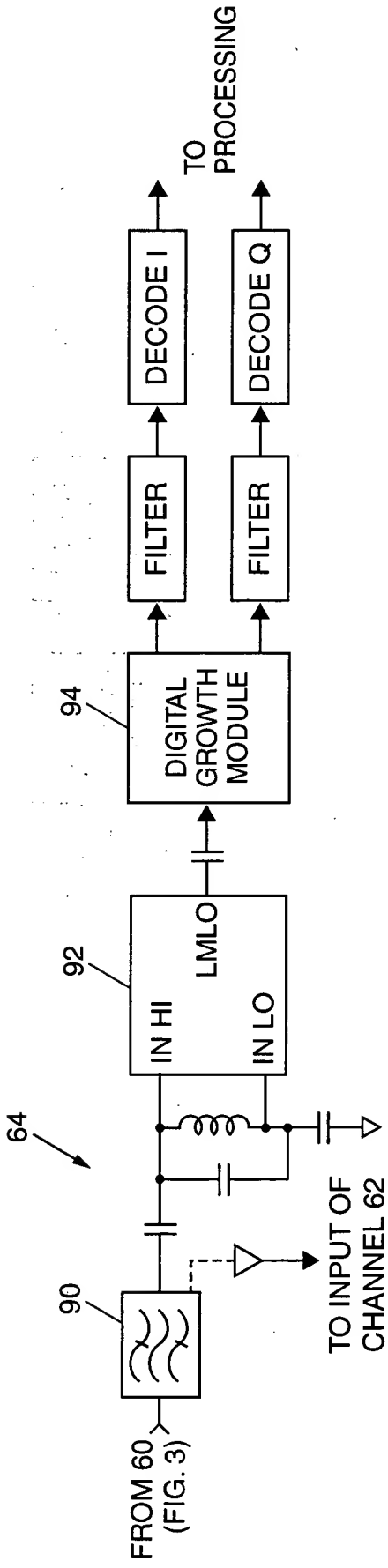
TO PROCESSING
DECODE I
DECODE Q
FILTER
FILTER
94
DIGITAL GROWTH MODULE
92
LMLO
IN HI
IN LO
64
90
TO INPUT OF CHANNEL 62
FROM 60 (FIG. 3)

FIG. 5